

formula $\text{HO}(\text{CH}_2\text{CH}_2\text{O})_n\text{H}$, $\text{HO}(\text{CHMeCH}_2\text{O})_n\text{OH}$, $\text{HO}(\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_2\text{O})_n\text{H}$ and $\text{HO}(\text{CHEtCH}_2\text{O})_n\text{H}$ (with $n = 2-10$), or mixts. thereof, and (b1) is maleic or phthalic acid. (c) are stearates of 2-, 3- or 4-valent metals, PE wax, Fischer-Tropsch hard paraffin, or animal, vegetable or mineral wax, in amts. of 4-10 wt. %, or siliconised silicic acid in amts. of 6-12 wt. %. (w.r.t. a+b+c). (I) also contain fillers, pigments etc.

USE/ADVANTAGE - (I) are useful for coating textile sheets (claimed). The method provides a coating material, esp. for producing linoleum and other textile-based flooring material, which is obtd. by a simple process from cheap, renewable raw materials and meets all the relevant requirements (high viscosity at room temp., max. setting time 5 mins. at up to 200 deg. , to give a strong, non-sticky coating with good elasticity, wear resistance and hydrolytic stability, etc.

Dwg.0/0

Abstract (Equivalent): DE 4135664 C

Coating compsn comprises an epoxidation prodn (about 1 mol) of one or more esters of unsatd 8-22C fatty acids and 2-6C aliphatic polyols, contg on average more than one epoxide gp per molecule; one or more partial esters (about 1 mol) of alk-2-ene-polycarboxylic acids having at least two free COOH gps and polyether polyols derived from polyols of formula $\text{HO}(\text{CHR}-\text{CH}_2\text{O})_n\text{OH}$ and/or $\text{HO}((\text{CH}_2)_4\text{O})_n\text{OH}$, where R is H, Me or Et and n is 2-10; a hydrophobic additive (2-14 wt%), pref a metallic stearate, silicone oil, polyethylene wax, hard paraffin, animal or vegetable wax, PTFE or siliconised silica; and opt fillers pigments, etc.

USE/ADVANTAGE - The prods are surface coating agents for textiles. The coatings exhibit elasticity, abrasion resistance and hydrolytic stability.

Dwg.0/0

Abstract (Equivalent): EP 539916 B

Coating composition containing a combination of a) epoxidation products of esters of unsaturated fatty acids of chain length C8 to C22 with polyvalent aliphatic alcohols which contain 2-6 C atoms and which include on average more than one epoxide group per molecule and b) partial esters of polycarbonic acids with polyglycols which include at least two free carbonic acid groups per molecule and a double bond with the free carbonic acid groups in the alpha,beta position, c) a hydrophobic agent, the components in accordance with a) and b) being used in a molar ratio of 0.1:1 to 1.2:1 and the addition of hydrophobic agents being 2 to 14 weight percent of the coating.

Dwg.0/0

Derwent Class: A28; A82; G02

International Patent Class (Main): C08G-059/42; C09D-191/00

International Patent Class (Additional): C09D-007/12; C09D-163/00;

C09D-167/00; C09D-191/06; D06N-003/16

Derwent WPI (Dialog® File 351): (c) 2002 Derwent Info Ltd. All rights reserved.

© 2002 The Dialog Corporation plc

1/34/1 (Item 1 from file: 345)
11134108
Basic Patent (No,Kind,Date): EP 539916 A1 19930505

PATENT FAMILY:
GERMANY (DE)

Patent (No,Kind,Date): DE 4135664 A1 19930506
BESCHICHTUNGSMASSE AUS NACHWACHSENDEN ROHSTOFFEN (German)
Patent Assignee: BOEHME CHEM FAB KG (DE)
Author (Inventor): BALBACH GUENTER DR (DE); JUNG KARL-HEINZ DR (DE);
DOECKER HORST (DE)
Priority (No,Kind,Date): DE 4135664 A 19911029
Applic (No,Kind,Date): DE 4135664 A 19911029
IPC: * C09D-191/00; C09D-007/12; C09D-191/06; D06N-003/16; C09K-003/18
; C09D-127/18; C09D-123/06

Language of Document: German

Patent (No,Kind,Date): DE 59208320 C0 19970515
BESCHICHTUNGSMASSEN AUF BASIS NACHWACHSENDER ROHSTOFFE (German)
Patent Assignee: BOEHME CHEM FAB KG (DE)
Author (Inventor): BALBACH GUENTER DR (DE); JUNG KARL-HEINZ DR (DE);
DOECKER HORST (DE)
Priority (No,Kind,Date): DE 59208320 A 19921027; DE 4135664 A
19911029

Applic (No,Kind,Date): DE 59208320 A 19921027

IPC: * C08G-059/42; C09D-163/00; C09D-167/00

CA Abstract No: * 120(02)010457Q

Derwent WPI Acc No: * C 93-145300

Language of Document: German

Patent (No,Kind,Date): DE 4135664 C2 19951026
BESCHICHTUNGSMASSE AUS NACHWACHSENDEN ROHSTOFFEN (German)
Patent Assignee: BOEHME CHEM FAB KG (DE)
Author (Inventor): BALBACH GUENTER DR (DE); JUNG KARL-HEINZ DR (DE);
DOECKER HORST (DE)

Priority (No,Kind,Date): DE 4135664 A 19911029

Applic (No,Kind,Date): DE 4135664 A 19911029

Filing Details: DE C2 D2 Grant of a patent after examination process

IPC: * C09D-191/00; C09D-007/12; C09D-191/06; D06N-003/16

CA Abstract No: * 120(02)010457Q

Derwent WPI Acc No: * C 93-145300

Language of Document: German

EUROPEAN PATENT OFFICE (EP)

Patent (No,Kind,Date): EP 539916 A1 19930505
COATING COMPOSITIONS BASED ON REGENERABLE RAW MATERIAL (English; French
; German)

Patent Assignee: BOEHME CHEM FAB KG (DE)

Author (Inventor): BALBACH GUENTER DR (DE); JUNG KARL-HEINZ DR (DE);
DOECKER HORST (DE)

Priority (No,Kind,Date): DE 4135664 A 19911029

Applic (No,Kind,Date): EP 92118334 A 19921027

Designated States: (National) BE; DE; DK; FR; GB; LU; NL; SE

IPC: * C08G-059/42; C09D-163/00; C09D-167/00

CA Abstract No: ; 120(02)010457Q

Derwent WPI Acc No: ; C 93-145300

Language of Document: German

Patent (No,Kind,Date): EP 539916 B1 19970409

COATING COMPOSITIONS BASED ON REGENERABLE RAW MATERIAL (English; French
; German)

Patent Assignee: BOEHME CHEM FAB KG (DE)
 Author (Inventor): BALBACH GUENTER DR (DE); JUNG KARL-HEINZ DR (DE);
 DOECKER HORST (DE)
 Priority (No,Kind,Date): DE 4135664 A 19911029
 Applic (No,Kind,Date): EP 92118334 A 19921027
 Designated States: (National) BE; DE; DK; FR; GB; LU; NL; SE
 IPC: * C08G-059/42; C09D-163/00; C09D-167/00
 CA Abstract No: * 120(02)010457Q
 Derwent WPI Acc No: * C 93-145300
 Language of Document: German

Inpadoc/Fam.& Legal Stat (Dialog® File 345): (c) 2002 EPO. All rights reserved.

1/34/2 (Item 1 from file: 351)

009451775

WPI Acc No: 1993-145300/199318

**Coating materials based on renewable raw materials - contain
 epoxidised ester(s) of unsatd. fatty acids, partial ester(s) of unsatd.
 polycarboxylic acids and polyglycol(s), and waterproofing agents**

Patent Assignee: BOEHME CHEM FAB KG TH (BOHT)
 Inventor: BALBACH G; DOECKER H; JUNG K; JUNG K H
 Number of Countries: 008 Number of Patents: 005
 Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 539916	A1	19930505	EP 92118334	A	19921027	199318 B
DE 4135664	A1	19930506	DE 4135664	A	19911029	199319
DE 4135664	C2	19951026	DE 4135664	A	19911029	199547
EP 539916	B1	19970409	EP 92118334	A	19921027	199719
DE 59208320	G	19970515	DE 508320	A	19921027	199725
			EP 92118334	A	19921027	

Priority Applications (No Type Date): DE 4135664 A 19911029

Cited Patents: DE 1494405; FR 2457884; EP 174042

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 539916	A1	G	6	C08G-059/42	
Designated States (Regional): BE DE DK FR GB LU NL SE					
DE 4135664	A1		5	C09D-191/00	
DE 4135664	C2		5	C09D-191/00	
EP 539916	B1	G	9	C08G-059/42	
Designated States (Regional): BE DE DK FR GB LU NL SE					
DE 59208320	G			C08G-059/42	Based on patent EP 539916
Abstract (Basic): EP 539916 A					

Coating materials (I) are claimed, contg. (a) epoxidised esters of 8-22C unsatd. fatty acids with 2-6C polyhydric alcohols, contg. more than 1 epoxide gp./mol., (b) partial esters of polycarboxylic acids (b1) and polyglycols (b2), contg. at least 2 free COOH gps./mol. with a double bond in the alpha,beta-position to the free COOH, and (c) a waterproofing agent. Mol. ratio (a):(b) = (0.8:1)-(1.2:1), and the coating contains 2-14 wt. % (c).

Specifically (a) is an epoxidised natural unsatd. fat or oil, pref. contg. more than 1.5 epoxide gps./mol. (on average). (b2) are poly-ethylene, -propylene, -tetramethylene or -butylene glycols of